

**Notice of Allowability**

Application No.

10/078,724

Examiner

Nicholas Ponomarenko

Applicant(s)

CHEUNG ET AL.

Art Unit

2834

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to dated 11/19/03.
2. ☒ The allowed claim(s) is/are 15-19 and 21-28.
3. ☒ The drawings filed on 17 July 2002 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.
5. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
  - (a) ☐ The translation of the foreign language provisional application has been received.
6. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE**

7. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
8. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No. \_\_\_\_\_.
  - (b) ☒ including changes required by the proposed drawing correction filed 19 February 2003, which has been approved by the Examiner.
  - (c) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No. \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the margin according to 37 CFR 1.121(d).

9. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |  |   |
|--|---|
| 1 <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                                       | 5 <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)          |
| 2 <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                              | 6 <input type="checkbox"/> Interview Summary (PTO-413), Paper No. _____             |
| 3 <input checked="" type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No. _____ | 7 <input checked="" type="checkbox"/> Examiner's Amendment/Comment                  |
| 4 <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material           | 8 <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
|  | 9 <input type="checkbox"/> Other  |

## DETAILED ACTION

### *Examiner's Amendment*

1. An Examiner's Amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 C.F.R. §1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the Issue Fee.

2. Authorization for this Examiner's Amendment was given in a telephone interview with Mr. Richard S. Koppel (Reg No. 26,475) on November 20, 2003.

3. The application has been amended as follows:

Cancel claims 1–14, 20 and 29-67.

Amend claim 15, as follows:

15 (Amended). An electrical generator, comprising:

a magnet constrained to move relative to an enclosure,

a ferrofluid disposed between said magnet and enclosure to provide a low friction interface, [and]

a conductive coil disposed with respect to said magnet so that movement of said magnet relative to the coil generates an electrical signal in said coil [.] , and

a pair of end magnets on opposite sides of, and opposing polarity to, said magnets to limit said magnet's movement.

***Allowable Subject Matter***

4. This application is in condition for allowance except for the presence of claims 1-14 and 29-67 to inventions non-elected without traverse. Accordingly, claims 1-14 and 29-67 have been cancelled.

***Reasons for Allowance***

5. Claims 15-19 and 21-28 are allowed.

**6. Examiner's Statement of Reasons for Allowance:**

Applicant(s) invention relates to a portable generator, and more specifically, to a reciprocating movement permanent magnet generator.

The electrical generator has a tubular enclosure with a permanent magnet moving back and forth inside the enclosure with the help of human hand or by other mechanical means. A coil is disposed around the magnet and generates an electrical current during magnet's moves. The enclosure is filled with ferrofluid for reduction of friction. The ends of the enclosure have permanent magnets with opposite polarity to the main magnet to limit main magnet movements.

There are inventions in the field that provide similar functionality and/or have similar features, as prior art of record shows. Applicant(s) invention differs from the prior art of record by the combination of operational features, specifically by its ferrofluid with end magnets. The examiner interpreted the arrangement of these features, as they are described in the specification and are shown on the drawings. The device is

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capable to perform as claimed, and examiner's search failed to find the claimed combination of features according to the disclosed performance.

7. Any comments considered necessary by applicant must be submitted no later than the payment of the Issue Fee and, to avoid processing delays, should preferably accompany the Issue Fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

***Conclusion***

8. The prior art made of record and not relied upon is considered pertinent to applicant(s) disclosure.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nicholas Ponomarenko whose telephone number is (703) 308-1776.

10. Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist, Mon. - Fri., 8 a.m. – 5:30 p.m.

Phone: (703) 308-0956

Fax: (703) 305-3432

np

November 20, 2003



**Nicholas Ponomarenko**  
**Primary Examiner**  
**Technology Center 2800**